BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: ***Modified Estimate for Improvements and Asphalting to Roads at Doddabommasandra, Krishna Temple Surrounding areas in Ward No. 09 (Vidyaranyapura).***

Job Code: 009-20-000086

Estimated Cost Rs:	***30.00 Lakhs***
Modified Cost Rs:	***28.58 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Modified Estimate for Improvements and Asphalting to Roads at Doddabommasandra, Krishna Temple Surrounding areas in Ward No. 09 (Vidyaranyapura).**

	009-20-000086	P-3726				Estimate Cost:		2858567.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	Reukamba Temple Main Road		2	85.00	0.45	0.45	34.43		
	2nd B Cross		2	75.00	0.45	0.45	30.38		
	6th Main Road		2	140.00	0.45	0.45	56.70		
	3rd C Cross		2	93.00	0.45	0.45	37.67		
	2nd C Cross		2	90.00	0.45	0.45	36.45		
	Berm Cutting								
	Reukamba Temple Main Road		2	85.00	0.90	0.20	30.60		
	2nd B Cross		2	75.00	0.90	0.20	27.00		
	6th Main Road		2	140.00	0.90	0.20	50.40		
	3rd C Cross		2	93.00	0.90	0.20	33.48		
	2nd C Cross		2	90.00	0.90	0.20	32.40		
							369.50	232.00	**85723.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	For Drain								
	Reukamba Temple Main Road		2	85.00		1.35	229.50		
	2nd B Cross		2	75.00		1.35	202.50		
	6th Main Road		2	140.00		1.35	378.00		
	3rd C Cross		2	93.00		1.35	251.10		
	2nd C Cross		2	90.00		1.35	243.00		
	For Covering Slab						**1304.10**		
	Reukamba Temple Main Road		2	85.00		0.90	153.00		
	2nd B Cross		2	75.00		0.90	135.00		
	6th Main Road		2	140.00		0.90	252.00		
	3rd C Cross		2	93.00		0.90	167.40		
	2nd C Cross		2	90.00		0.90	162.00		
							869.40		
	For Open Space Consider 35%						-304.29		
							565.11		
							1869.21	106.00	**198136.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 35%		Vide Item No. 2				460.35		
							460.35	708.00	**325926.00**
4	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Reukamba Temple Main Road		2x2	25.00		0.40	40.00		
	2nd C Cross		2x2	30.00		0.40	48.00		
	6th Main Road		2x2	55.00		0.40	88.00		
	3rd C Cross		2x2	30.00		0.40	48.00		
	2nd C Cross		2x2	28.00		0.40	44.80		
							268.80	934.00	**251059.00**
5	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No.34.11 of PWD SR 2018-19**	Cum							
	Bed Concrete								
	Reukamba Temple Main Road		2	15.00	0.45	0.10	1.35		
	2nd B Cross		2	20.00	0.45	0.10	1.80		
	6th Main Road		2	25.00	0.45	0.10	2.25		
	3rd C Cross		2	15.00	0.45	0.10	1.35		
	2nd C Cross		2	12.00	0.45	0.10	1.08		
	Coping Concrete								
	Reukamba Temple Main Road		2x2	25.00	0.20	0.10	2.00		
	2nd B Cross		2x2	30.00	0.20	0.10	2.40		
	6th Main Road		2x2	55.00	0.20	0.10	4.40		
	3rd C Cross		2x2	30.00	0.20	0.10	2.40		
	2nd C Cross		2x2	28.00	0.20	0.10	2.24		
							21.27	5347.00	**113731.00**
6	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.2 PWD SR 2018-19**	Sqm							
	B S Slab Covering								
	Reukamba Temple Main Road		2	25.00	0.90		45.00		
	2nd B Cross		2	30.00	0.90		54.00		
	6th Main Road		2	50.00	0.90		90.00		
				105.00			**189.00**	923.00	**174447.00**
7	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 26 / Item No. 5.22, PWD SR 2018-19**	m							
			350	3.00			**1050.00**	58.00	**60900.00**
8	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
	Chamundeshwari Temple Main Road		1	175.00	5.65		988.75		
							988.75		
							681.16	91.00	**61986.00**
							307.59	90.97	**27981.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Tender Premium @ -4.646%	-4.43							
		90.97							
9	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
	Chamundeshwari Temple Main Road								
	BWSSB Road Cutting		1	175.00	0.90	0.30	47.25		
	Road Surface		1	175.00	5.65	0.15	148.31		
	Total Qty						**195.56**		
	Qty upto 125%						**170.29**	1910.00	**325249.00**
	Qty Above 125%						**25.28**	1908.30	**48232.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
	Tender Premium @ -4.646%	-92.98							
		1908.30							
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	Chamundeshwari Temple Main Road		1	175.00	5.65		988.75		
							988.75		
							681.16	27.00	**18391.00**
	Basic Rate	28.00					**307.59**	28.30	**8705.00**
	Area Weightage @ 6%	1.68							
	Total	**29.68**							
	Tender Premium @ -4.646%	-1.38							
		28.30							
11	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum							
	Chamundeshwari Temple Main Road		1	175.00	5.65	0.05	49.44		
							49.44		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							34.06	5121.00	**174434.00**
							15.38	4985.03	**76645.00**
	Basic Rate	4932.00							
	Area Weightage @ 6%	295.92							
	Total	**5227.92**							
	Tender Premium @ -4.646%	-242.89							
		4985.03							
12	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	Chamundeshwari Temple Main Road		1	175.00	5.65		988.75		
							988.75	5.00	**4944.00**
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD SR 2018-19**	Sqm							
			Qty Vide Item No. 12				988.75		
							988.75	12.00	**11865.00**
14	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum							
	Chamundeshwari Temple Main Road		1	175.00	5.65	0.040	39.55		
							39.55	7248.00	**286658.00**
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **Page No. 182, Item No. 24.15 PWD SR 2018-19**	Sqm							
	Chamundeshwari Temple Main Road		2	175.00	0.10		35.00		
							35.00	433.00	**15155.00**
	EIRL								

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
E1	Construction of granular sub-base Grading-V as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechanical mix plant at OMC Carriage of mixed material to work site spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORTH V Revision **Page No. 153, Item No. 20.5, PWD SR 2018-19**	Cum							
	Road Surface		1	175.00	5.65	0.15	148.31		
							148.31	1902.24	**282125.00**
	Basic Rate	1882.00							
	Area Weightage @ 6%	112.92							
	Total	**1994.92**							
	Tender Premium @ -4.646%	-92.68							
		1902.24							
	Sub Total								**2552292.00**
	GST @ 12%								**306275.00**
								Total	2858567.00
Rupees Twenty Eight Lakh(s) Fifty Eight Thousand Five Hundred Sixty Seven Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per PWD SR of 2018-19 +/- Tender Premium.

3 This work included under 2019-20 POW Grants.

4 The provisions were made in this estimate are necessary and adequate.

5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

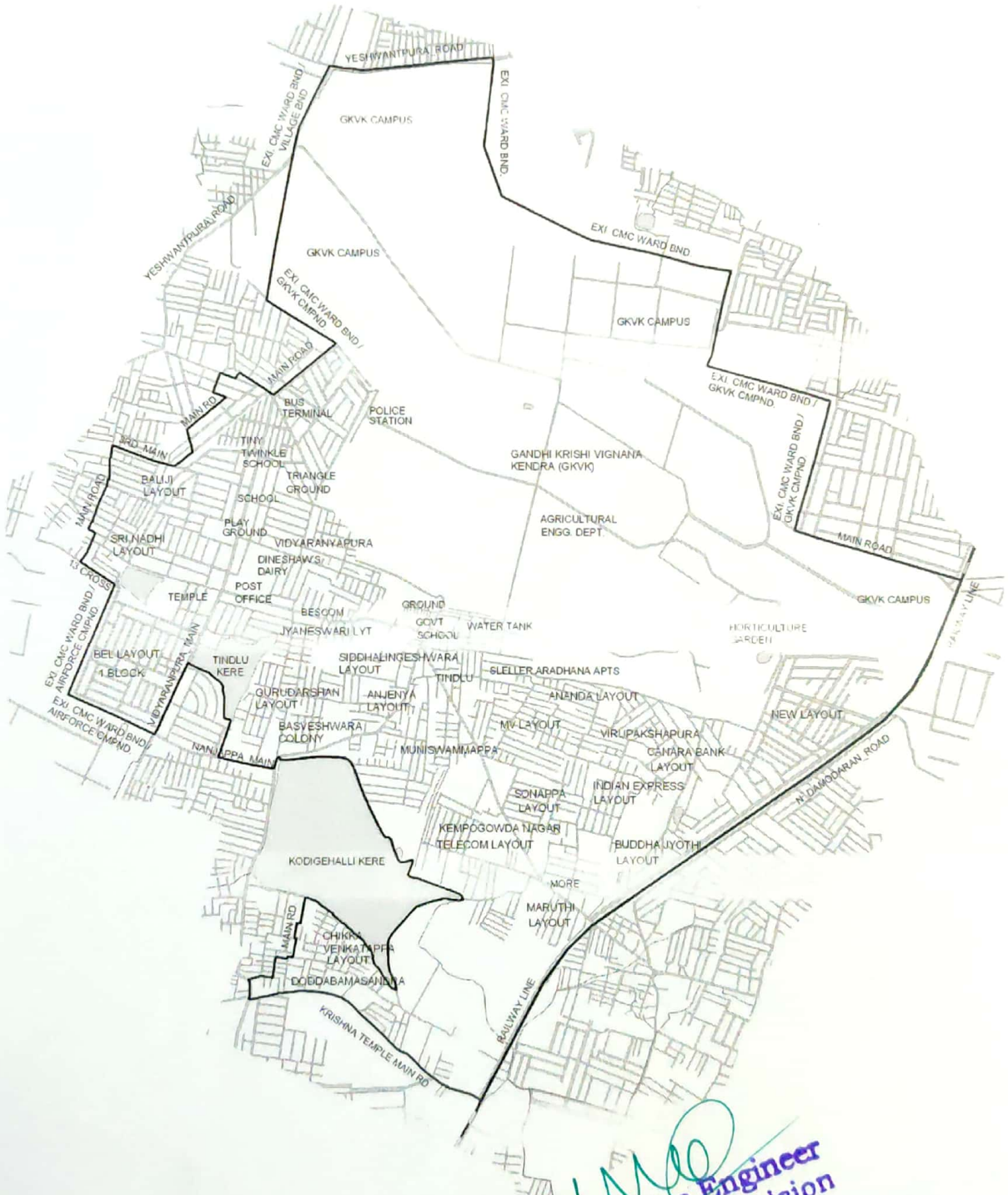
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bengaluru-97

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction
Accorded for Rs 28,58,567.00
Head of Account P 3726
CER NO ...47... Dt 30.11.2020

152 - BYATARAYANAPURA AC
WARD NAME : 9 - VIDYARANYAPURA



Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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